

# Greg Goltsov

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**Email**

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**ABOUT ME**

I combine data engineering, science and full-stack development to build data products that find and answer the most valuable questions. My diverse industry experience includes building scalable backends from scratch, spearheading pragmatic machine learning solutions and always focusing on data-driven approaches.

Currently, managing a data team working to overhaul Australia's largest media company's data analytics pipeline. Migrating legacy systems to Spark, I'm drastically reducing the time from data collection to insight (from weeks to hours).

Previously, I solely designed and implemented the backend infrastructure, data pipeline and analytics for what became the world's largest community of surgeons operating online – Touch Surgery. We went on to scale the platform from 60,000 to 1,200,000+ users as part of a team of four.

**CITIZENSHIP**

Australian 457 visa holder (3.5 years left), British Citizen, Russian Citizen

**LANGUAGES**

**Major languages:** Python, Clojure/ClojureScript, SQL, Bash

**I also have experience developing in:** Ruby, JavaScript, C#, C, C++, Java, Matlab

**TECHNOLOGIES**

PySpark (Databricks), AWS Redshift, AWS S3, Pandas, Scikit-learn, Ansible, Re-frame, PostgreSQL, PostGIS, Django, Flask, D3.js, Elasticsearch, Carto, Git, Unity, LaTeX, Emacs

**EXPERIENCE****Senior Data Engineer, *Southern Cross Austereo***

*January 2017 — May 2018*

- Architected, developed and delivered to production internal data products resulting in AUD\$1.5mil additional revenue
- Currently processing 3mil+ rows per day, integrating 6 disparate data sources
- Reduced the speed of data analysis from weeks to hours
- Performed as direct-line manager to data engineer
- Combined PySpark/Databricks (computing), AWS S3 (data lake), Apache Airflow on AWS EC2 (scheduling), DOMO (dashboarding)

**Data Scientist (contract), *Appear Here***

*May 2016 — January 2017*

- Spearheaded the development of machine-learning suggestion system using Scikit-Learn, Pandas to increase market uptake – utilising Random Forest Classifier

- Self-directed, and managed the research & development of the project, within the first week of joining
- Produced and visualised insights for fund-raising decks

### **Analytics Scientist (Lead since January 2016), Touch Surgery**

*July 2013 — April 2016*

- Built much of the infrastructure and the data pipelines, starting with 60,000 users, later scaling to 1,200,000+
- Designed and built dashboards and reporting for Touch Surgery's *Fortune 10* clients.
- Worked closely with business and design teams on end-to-end feature development
- Prepared and gave product presentations to clients, including *Covidien, Johnson & Johnson*

### **Research Assistant, University of Abertay Dundee**

*2011, 2012 (4 months)*

- Computational Image Analysis Methods of Breast Cancer Tumour Spheroids (Java, ImageJ)
- Interactive simulation of blood clotting dynamics (C++, Boost, OpenGL)
- Supervised by Dr Anne Savage, Dr Adam Sampson

### **Research Assistant, University of Edinburgh**

*2010, 2011 (4 months)*

- Designed and implemented iPad version of [DERMOFIT project](#)
- Built a prototype gesture-based video browser for iPad
- Supervised by Prof Robert Fisher, Dr Victor P. Lavrenko

## **EDUCATION**

### **BSc (Hons) Computer Games Technology, University of Abertay Dundee**

*2010–2013*

- Graduated with First-class Honours
- World-leading Computer Games Development course, taught in C++, C, Unity
- Heavy focus on applied mathematics and physics, in the context of real-time systems

### **1<sup>st</sup> year BSc (Hons) Computer Science and Physics, University of Edinburgh**

*2009–2010*

- Studied Theoretical Computer Science, Pure and Applied Mathematics, Physics
- Attended 1<sup>st</sup> year, then decided to change specialisation

## **REFERENCES**

**Kevin Morrell**, *Head of Data and Analytics at Southern Cross Austereo*

**Dave Nolan**, *Engineering Manager at Facebook*

**Dr Andre Chow**, *COO at Touch Surgery*

## **PERSONAL**

Hobbies: photography ([500px](#), [Instagram](#)), cycling, travelling, coffee.

Languages: Russian (native), English (fluent).